

# INSULATED GATE BIPOLAR TRANSISTORS

The UFS SERIES of IGBTs (Insulated Gate Bipolar Transistors) is available in 600V and 1200V ratings and may be

specified in surface-mounted packages ranging from TO-252AA to TO-263AB. These are the ideal devices for a wide

variety of applications requiring high power control.

## IGBT SERIES 3 SWITCHES

TO-263	HGT1S20N60B3S	40A	600V	UFS Series	N-Channel
TO-263	HGT1S12N60C3S	24A	600V	UFS Series	N-Channel
TO-263	HGT1S12N60C3DS	24A	600V	UFS Series	N-Channel*
TO-263	HGT1S3N60C3DS	6A	600V	UFS Series	N-Channel*
TO-263	HGT1S7N60C3DS	14A	600V	UFS Series	N-Channel*
TO-263	HGT1S20N60C3RS	40A	600V	UFS Series (Rugged)	N-Channel
TO-252	HGTD3N60C3S	6A	600V	UFS Series	N-Channel
TO-252	HGTD7N60C3S	14A	600V	UFS Series	N-Channel

## UFS SERIES, VOLTAGE CLAMPED, LOGIC LEVEL IGBTs

Device	Current	Clamped Voltage	Package
HGT1S14N36G3VLS	14A	360V	TO-263
HGT1S14N37G3VLS	14A	370V	TO-263
HGT1S14N40F3VLS	14A	400V	TO-263
HGT1S14N45G3VLS	14A	450V	TO-263
HGT1S20N35G3VLS	20A	350V	TO-263

\*With Anti-Parallel Hyperfast Diode

Harris HYPER FAST and ULTRA FAST RECOVERY RECTIFIERS feature 25ns to 150ns Reverse Recovery Times, a Reverse Voltage Range between 50V and 1200V and a Current Peak ( $I_{FSM}$ )

Handling capacity up to 32.5A. They are available in single or dual rectifier styles in surface mount to 252 D-PAK packages. Also, a line of 1 AMP Single and Dual devices will soon be available

in SO-8 packages. Both the Hyper Fast and Ultra Fast families are ideal for power supplies in the 100kHz-500kHz Switching Range.

## HYPER FAST AND ULTRA FAST RECOVERY RECTIFIERS

### HARRIS ULTRA-FAST AND DUAL ULTRA-FAST RECOVERY RECTIFIERS

#### ULTRA-FAST RECOVERY RECTIFIER



TO-252  
 $I_{F(AVG)}$

#### DUAL ULTRA-FAST RECOVERY RECTIFIER



TO-252AA  
 $I_{F(AVG)}$

$V_{RRM}$	4A		6A		4Ax2		6Ax2	
100V	RURD410S	RURD610S	RURD410CCS	RURD610CCS				
	1.0V 35ns	1.0V 35ns	1.0V 35ns	1.0V 35ns				
150V	RURD415S	RURD615S	RURD415CCS	RURD615CCS				
	1.0V 35ns	1.0V 35ns	1.0V 35ns	1.0V 35ns				
200V	RURD420S	RURD620S	RURD420CCS	RURD620CCS				
	1.0V 35ns	1.0V 35ns	1.0V 35ns	1.0V 35ns				
400V	RURD440S	RURD640S	RURD440CCS	—				
	1.5V 60ns	1.5V 60ns	1.5V 60ns	—				
500V	RURD450S	RURD650S	RURD450CCS	—				
	1.5V 60ns	1.5V 60ns	1.5V 60ns	—				
600V	RURD460S	RURD660S	RURD460S	—				
	1.5V 60ns	1.5V 60ns	1.5V 60ns	—				

### HARRIS HYPER-FAST AND DUAL HYPER-FAST RECOVERY RECTIFIERS

#### HYPER-FAST RECOVERY RECTIFIER



TO-252  
 $I_{F(AVG)}$

#### DUAL HYPER-FAST RECOVERY RECTIFIER



TO-252AA  
 $I_{F(AVG)}$

$V_{RRM}$	4A		6A		4Ax2	
400V	RHRD440S	RHRD640S	RHRD440CCS			
	2.1V 35ns	2.1V 35ns	2.1V 35ns			
500V	RHRD450S	RHRD650S	RHRD450CCS			
	2.1V 35ns	2.1V 35ns	1.0V 35ns			
600V	RHRD460S	RHRD660S	RHRD460CCS			
	2.1V 35ns	2.1V 35ns	1.0V 35ns			
700V	—	—	—			
800V	—	—	—			
1000V	—	—	—			
1200V	RHRD4120S	RHRD6120S	—			
	3.2V 70ns	3.2V 65ns	—			